

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A method for wirelessly providing software updates to a target module located in a [[work]] machine, comprising:

 determining whether a software update condition exists for software stored in the target module;

 delivering software update data from a remote off-board system to the [[work]] machine when a software update condition exists; and

 performing an update process by the [[work]] machine including:

 determining, at the [[work]] machine, a location of the target module,

 determining whether an update delay condition exists based on the
location of the target module with respect to a primary data link and a secondary data
link,

 delivering the software update to the target module if no update delay condition exists, and

 delaying the delivery of the software update data to the target module if an update delay condition does exist.

2. (Currently Amended) The method of claim 1, wherein determining the location of the target module includes:

determining whether the target module is located on [[a]]the primary data link or [[a]]the secondary data link.

3. (Original) The method of claim 2, wherein when the target module is located on the primary data link, delivering, without delay, the software update to the target module.

4. (Original) The method of claim 2, wherein when the target module is located on the secondary data link, delivering the software update to the target module only if there is no update delay condition.

5. (Original) The method of claim 2, wherein when the target module is located on the primary data link, delivering, without delay, the software update to the target module only if there is no update delay condition.

6. (Currently Amended) The method of claim 1, wherein an update delay condition includes at least one of:

(i) a condition where the target module is incapable of receiving the software update at that time;

(ii) a condition where an interface control system that manages distribution of the software update within the [[work]] machine is incapable of delivering the software update at that time; and

(iii) a condition where the target module is located on [[a]]the secondary data link that has transmission characteristics different than those of [[a]]the primary data link connected to the interface control system.

7. (Currently Amended) The method of claim 1, wherein delivering the software update to the target module if no update delay condition exists includes:

receiving the software update at an interface control system within the [[work]] machine that manages the delivery of software updates for the [[work]] machine; and
forwarding, by the interface control system and without delay, the software update to the target module.

8. (Currently Amended) The method of claim 1, wherein delaying the delivery of the software update data includes:

receiving the software update at an interface control system within the [[work]] machine that manages the delivery of software updates for the [[work]] machine;
storing the software update data in a memory device associated with the interface control system; and

monitoring the update delay condition to determine when to deliver the software update data to the target module.

9. (Original) The method of claim 1, wherein determining whether an update delay condition exists includes:

receiving an indication from the target module reflecting a condition that it cannot process software updates at the time of receiving the indication.

10. (Currently Amended) The method of claim 1, wherein the [[work]] machine includes an interface control system that receives the software update data delivered from the off-board system, and wherein determining whether an update delay condition exists includes:

determining whether the target module is located on [[a]]the secondary data link that has a different transmission speed than [[a]]the primary data link connected to the interface control system.

11. (Original) The method of claim 1, wherein determining whether a software update condition exists for software stored in the target module includes:

determining whether the target module is in need of a different version of software based on an identification of software that is currently stored in the target module.

12. (Currently Amended) The method of claim 1, further including:
notifying a user associated with the [[work]] machine that the software update condition exists; and

receiving an indication from the user regarding the notification.

13. (Currently Amended) The method of claim 12, wherein notifying the user includes:

presenting the user with an indication that the off-board system will update software stored in the target module; and

wherein receiving an indication from the user includes:

receiving a rejection from the user for the software update; and

automatically overriding the user's rejection by delivering the software update to the [[work]] machine.

14. (Original) The method of claim 1, wherein performing an update process includes:

providing a notification message from the target module indicating a status of the delivery of the software update to the target module.

15. (Original) The method of claim 14, wherein the status of the delivery of the software update reflects one of a successful write of the software update to the target module, and an unsuccessful write of the software update to the target module.

16. (Original) The method of claim 15, wherein when the notification message indicates an unsuccessful write of the software update, the notification message includes data reflecting a reason associated with the unsuccessful write of the software update.

17. (Currently Amended) A system for providing software updates, comprising:
an off-board system including a memory for providing software update data
associated with a target module over a wireless communication medium; and
a [[work]] machine, remotely located from the off-board system, for receiving the
software update data, the [[work]] machine including:
an interface control system connected to a primary data link and a secondary
data link, and
the target module,
wherein the interface control system is configured to receive the software update
data, determine the location of the target module, determine whether an update delay
condition exists based on the location of the target module with respect to the primary
data link and the secondary data link, and either delay a delivery of the software update
data to the target module when an update condition exists, or deliver, without delay, the
software data to the target module over the secondary data link.

18. (Original) The system of claim 17, wherein the interface control system is
configured to determine the location of the target module by:
determining whether the target module is connected to the primary or secondary
data link.

19. (Original) The system of claim 18, wherein when the target module is
connected to the primary data link, the interface control system delivers, without delay,
the software update to the target module.

20. (Original) The system of claim 18, wherein when the target module is connected to the secondary data link, the interface control system delivers, without delay, the software update to the target module only if there is no update delay condition.

21. (Original) The system of claim 18, wherein when the target module is connected to the primary data link, the interface control system delivers, without delay, the software update to the target module only if there is no update delay condition.

22. (Currently Amended) The system of claim 17, wherein the update delay condition includes at least one of:

- (i) a condition where the target module is incapable of receiving the software update at that time;
- (ii) a condition where an interface control system that manages distribution of the software update within the [[work]] machine is incapable of delivering the software update at that time; and
- (iii) a condition where the target module is located on a secondary data link that has transmission characteristics different than those of a primary data link connected to the interface control system.

23. (Original) The system of claim 17, wherein the interface control system delays the delivery of the software update data by storing the software update data in a memory device associated with the interface control system, and monitors the update

delay condition to determine when to deliver the software update data to the target module.

24. (Original) The system of claim 17, wherein the target module is configured to send an indication reflecting a condition that it cannot process software updates at the time of sending the indication to the interface control system.

25. (Original) The system of claim 24, wherein the interface control system uses the indication to determine whether an update delay condition exists.

26. (Original) The system of claim 17, wherein the primary and secondary data links have different transmission characteristics, and wherein the interface control system determines whether an update delay condition exists by detecting that the target module is connected to the secondary data link.

27. (Original) The system of claim 17, wherein the off-board system is configured to determine whether the target module is in need of a new version of software based on an identification of software that is currently stored in the target module.

28. (Currently Amended) The system of claim 17, wherein the off-board system is configured to notify a user associated with the [[work]] machine that the target module

requires a software update, and receive an indication from the user regarding the notification.

29. (Original) The system of claim 28, wherein the off-board system notifies the user by presenting the user with an indication that the off-board system will update software stored in the target module.

30. (Currently Amended) The system of claim 29, wherein the off-board system is configured to receive a rejection from the user regarding the software update, and automatically override the user's rejection by delivering the software update to the [[work]] machine.

31. (Original) The system of claim 17, wherein the target module is further configured to provide a notification message indicating a status of the delivery of the software update to the target module.

32. (Original) The system of claim 17, wherein the status of the delivery of the software update reflects one of a successful write of the software update to the target module, and an unsuccessful write of the software update to the target module.

33. (Original) The method of claim 32, wherein when the notification message indicates an unsuccessful write of the software update, the notification message

includes data reflecting a reason associated with the unsuccessful write of the software update.

34. (Currently Amended) A system for providing software updates, comprising:
an off-board system including a memory for providing software update data associated with a target module over a wireless communication medium;
a first [[work]] machine, located within wireless communication range of the off-board system, and including a first interface control system; and
a second [[work]] machine, located outside the wireless communication range of the off-board system and within wireless communication range of the first [[work]] machine, the second [[work]] machine including:
a second interface control system connected to a primary data link and a secondary data link, and
the target module,
wherein the off-board system is configured to identify the first [[work]] machine as a relay [[work]] machine for the software update data, send the software update data to the first [[work]] machine and the first interface control system is configured to forward the software update module to the second [[work]] machine, and the second interface control system is configured to receive the software update data, determine the location of the target module, determine whether an update delay condition exists based on the location of the target module with respect to the primary data link and the secondary data link, and either delay a delivery of the software update data to the target module

when an update condition exists, and deliver, without delay, the software data to the target module over the secondary data link.

35. (Currently Amended) An interface control system located in a [[work]] machine and connected to a primary data link and a secondary data link connected to a target module, comprising:

 a processing device; and
 a memory device including program instructions for performing a software update process when executed by the processing device, the software update process including:

 receiving a software update for the target module from a remote off-board system that wirelessly transmits the software update to a communication module within the [[work]] machine,

 determining a location of the target module,
 determining whether an update delay condition exists based on the location of the target module with respect to the primary data link and the secondary data link,

 delivering the software update to the target module when there is no update delay condition, and

 delaying the software update to the target module when there is an update delay condition.

36. (Currently Amended) An off-board system including:
a processing device; and
a memory device including instructions for performing a software update process,
when executed by the processing device, the software update process including:
determining whether a software update condition exists for a target module within
a [[work]] machine, and
sending the software update to the [[work]] machine when the software update
condition does exist,
wherein the [[work]] machine is configured to determine an update delay
condition based on the location of the target module with respect to a primary data link
and a secondary data link of the machine, and to deliver, without delay, the software
update to the target module machine when [[an]]the update delay condition does not
exist, and to delay the delivery of the software update to the target device when the
update delay condition does exist.

37. (Currently Amended) A system for wirelessly providing software updates to
a target module located in a [[work]] machine, comprising:
means for determining whether a software update condition exists for software
stored in the target module;
means for delivering software update data from a remote off-board system to the
[[work]] machine when a software update condition exists ;
means for determining, at the [[work]] machine, a location of the target module;

means for determining whether an update delay condition exists based on the
location of the target module with respect to a primary data link and a secondary data
link;

means for delivering the software update to the target module if no update delay
condition exists; and

means for delaying the delivery of the software update data to the target module
if an update delay condition does exist.